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****DISCLAIMER:** This translation may not reflect the original exactly.**

1931 Utility Model Application No.15307

Category No. 28

8. Buffer System and Damper

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Multiple Buffer

[Brief Description of the Drawing]

The drawing is a cross sectional view showing a buffer according to the present invention.

[Summary of the Nature, Mechanism and Effect of the Utility Mode]

In the drawing, (1) and (3) represent buffer cylinders, (2) and (4) represent one-way valves, (5) and (6) represent pistons, (7) and (8) represent piston lots and (9) represents a piston return spring.

Multiple buffers of the present invention, wherein

a plurality of buffer cylinders are stacked in tandem,
the piston lot (8) of the cylinder (3) located beneath penetrates through the bottom
of the cylinder (1) located above,
and its edge is opposed to the piston (5) so that
when an impact is imposed on the piston lot (7), the pistons (5)(6) in each of the
cylinders are compressed simultaneously, and the impact is distributed and
absorbed by each cylinder (5),

is effective if applied when a piston stroke is extremely short while a large buffer effect is

required and a space to mount it is narrow, and by increasing the number of buffer cylinders to be stacked in tandem, a stroke required to buffer the same amount of impact can be reduced.

When a large multiple buffers are installed in oil, they can be used as multiple buffers in oil.

[A scope of the Claim]

As explained in the drawing, a structure of multiple buffers, wherein a plurality of buffer cylinders comprising a piston cylinder equipped with a one-way valve at its bottom and a piston that is fit in said cylinder are stacked in tandem and their pistons are made capable of moving simultaneously.

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多重緩衝器

圖面ノ略解 同ハ本案ノ緩衝器ヲ示ス縱斷面圖ナリ

實用新案ノ性質、作用及效果ノ要領 圖ニ於テ①及②ハ緩衝室及③ハ逆止弁④及⑤ハ唧子⑥及⑦ハ唧子戻シ機構ナリ本考

案ハ緩衝室ノ複數個ヲ直列ニ積重ネ下位ニ位置スル室⑧ノ唧子桿⑨ヲシテ上位ニ位置セル室⑩ノ底ヲ貫通セシメ其ノ先端ヲ唧子⑪ニ

對向セシメタル故ニ唧子桿⑨ニ衝撃ヲ加フル時ハ各室内ノ唧子⑪互ハ同時ニ壓縮作用ヲ行ヒ衝撃ヲ各處ニ分布吸收セシム本多重緩衝

器ハ唧子ノ衝程極メテ短ク而モ大ナル緩衝作用ヲ必要トシ取附場所狹キ場合ニ適用シテ有效ナルモノニシテ直列ニ積重ネラレタル緩

衝衝ノ數ヲ増加スル事ニヨリ同一程度ノ緩衝ヲ行フニ必要トスル衝程ハ減縮セラレ

大多重緩衝器ヲ油中ニ設置スルトキハ油入多重緩衝器トシテ使用シ得ヘシ

登録請求ノ範圍 圖示説明セル如ク底部ニ一方弁ヲ備フル唧子筒ト該筒内ニ嵌合セル唧子トヨリナル緩衝室ノ複數個ヲ直列ニ積重ネ夫

等ノ唧子ヲ同時ニ運動スヘクナシタル多重緩衝器ノ構造

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